Lab Report : 2

Problem no.- 1: *Suppose you have an array of numbers . Now find out the two elements form the array which sum will be equal to a given number(user input).*

Code :

```java
import java.util.Scanner;

public class problem1 {
    public static void findValue() {
        Scanner inp=new Scanner(System.in);

        System.out.print("Enter the size of an array: ");
        int size=inp.nextInt();

        int []arr=new int[size];
        System.out.print("Enter the elements of the array: ");
        for(int i=0;i<size;i++) {
            arr[i]=inp.nextInt();
        }

        System.out.println("Enter a number: ");
        int targetSum=inp.nextInt();

        int temp=0;
        System.out.print("The numbers are: ");
        for(int i=0;i<size-1;i++) {
            for(int j=i+1;j<size;j++) {
                if(arr[i]+arr[j]==targetSum) {
                    temp++;

                    System.out.print(arr[i]+" ");
                    System.out.println(arr[j]);
                }
            }
        }
    }
```
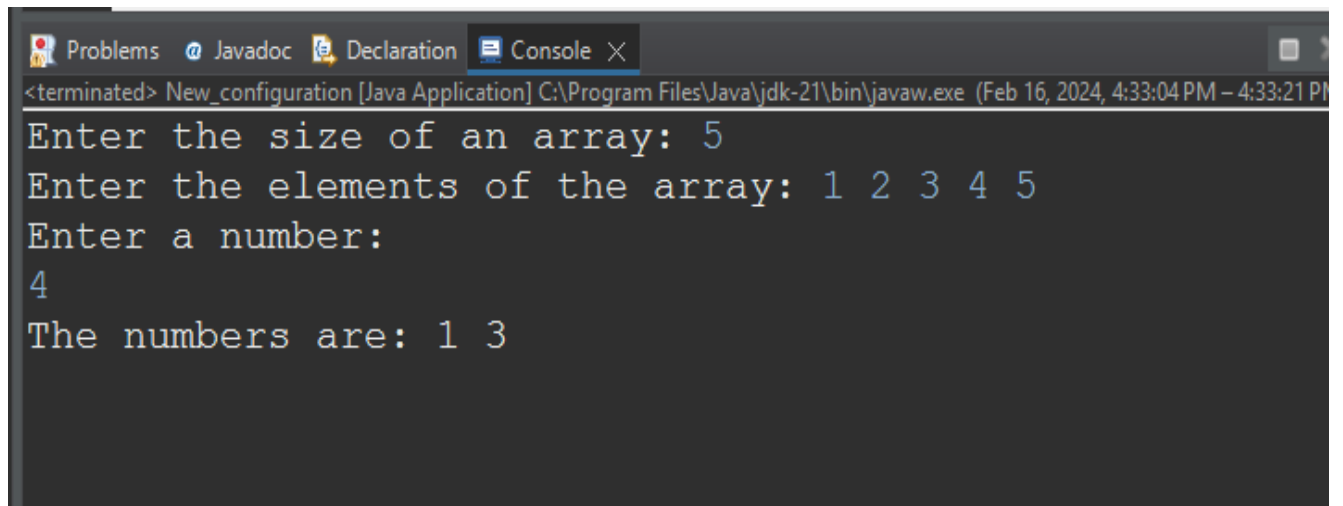
```java
    public static void main(String[]args) {
        findValue();
    }
}
```

Output :

Problem no.- 2: *WAP to remove duplicate elements from an array.*

Code :

```java
import java.util.Scanner;

public class problem2 {
    public static void removeValue() {
        Scanner inp= new Scanner(System.in);

        System.out.print("Enter the size of array: ");
        int size=inp.nextInt();

        int []arr=new int[size];
        int []arr2=new int[size];

        System.out.print("Enter the elements of  array: ");
        for(int i=0;i<size;i++) {
            arr[i]=inp.nextInt();
        }
        int temp=0;
        for(int i=0;i<size-1;i++) {
            if(arr[i]!=arr[i+1]) {


                arr2[temp++]=arr[i];
            }
        }
        arr2[temp++]=arr[size-1];
        for(int i=0;i<temp;i++) {
            arr[i]=arr2[i];

        }

        System.out.print("After remove duplicate value: ");

        for(int i=0;i<temp;i++) {

            System.out.print(arr[i]+" ");

        }


    }
```
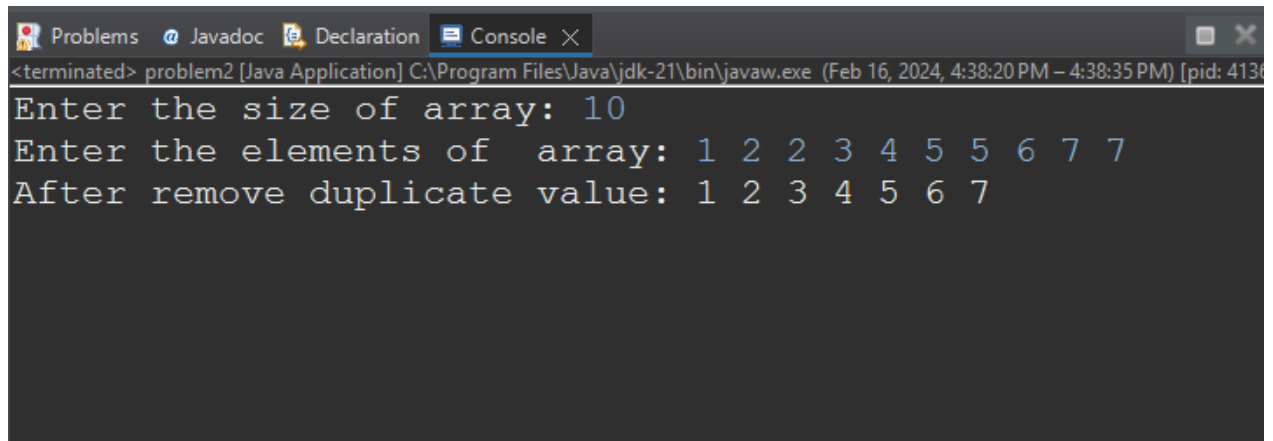
```java
public static void main(String[]args) {
    removeValue();

}
}
```

Output :


```
Problems  @ Javadoc  Declaration  Console ×                                    □ ×
<terminated> problem2 [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe  (Feb 16, 2024, 4:38:20 PM – 4:38:35 PM) [pid: 4136
Enter the size of array: 10
Enter the elements of  array: 1 2 2 3 4 5 5 6 7 7
After remove duplicate value: 1 2 3 4 5 6 7
```